

## NOTES:

- WHERE GROUNDWATER IS ENCOUNTERED IN THE PIPE ZONE, PIPE ZONE BACKFILL SHALL BE ENVELOPED WITH MIRAFI 140N GEOTEXTILE OR EQUAL OR AS REQUIRED BY THE ENGINEER. A MINIMUM OF 12" OVERLAP IS REQUIRED.
- 2. TRENCH BACKFILL AND RELATIVE COMPACTION (RC) SHALL BE AS FOLLOWS:

BACKFILL ZONE
TRENCH ZONE (ROADWAY)
TRENCH ZONE (UNPAVED)
PIPE ZONE INCLUDING BEDDING

WATER & RECYCLED WATER PIPES
AB CLASS 2 (95% RC)
NATIVE MATERIAL (90% RC)
SAND

SEWER & STORM DRAIN PIPES
AB CLASS 2 (95% RC)
NATIVE MATERIAL (90% RC)

3/4" CRUSHED ROCK

- 3. CONTRACTOR/PERMITEE SHALL PAY FOR ALL REQUIRED COMPACTION TESTS.
- 4. SAND SHALL BE FREE FROM ORGANIC MATTER AND CLAY WITH A MINIMUM SAND EQUIVALENT OF 70 AND A SIEVE GRADATION BY WEIGHT AS FOLLOWS:

SIEVE SIZE	% PASSING
NO. 4	100
NO. 8	75-100
NO. 16	55-100
NO. 30	30-95
NO. 50	10-75
NO. 100	2-15
NO. 200	0-5

- 5. ¾" CRUSHED ROCK SHALL BE CLEAN AND FREE OF DELETERIOUS SUBSTANCES. ROCK SHALL BE PLACED IN 6" LIFTS AND CONSOLIDATED TIGHTLY.
- 6. UPON APPROVAL OF THE ENGINEER, CONTROLLED DENSITY FILL (CDF) MAY BE USED IN LIEU OF AB CLASS 2. THE DESIGN FOR CDF SHALL MEET THE FOLLOWING REQUIREMENTS:

CEMENT FLY ASH, CLASS F FINE AGGREGATE 50-100 LB/CU.YD 10-2000 LB/CU.YD 2600-3100 LB/CU.YD 325-580 LB/CU.YD

WATER

50-100 PSI

STRENGTH @ 28 DAYS

50-100 PSI

7. THE BOTTOM OF EACH PIPE SECTION WILL BE IN CONTINUOUS CONTACT WITH THE BEDDING. BEDDING SHALL BE REMOVED FROM UNDER PIPE BELLS TO PREVENT SAGGING OR UNNECESSARY STRESS ON THE PIPE.

TYPICAL TRENCH DETAIL



DATE

: JULY 8, 2014

16A-1

APPROVED BY: